

ANTIMONY - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Antimony	1.744	2.146	18	0.953	0.878	10

Calculated Difference = 0.791
 Standard Error of the Difference = 0.589906214
 Degree of Freedom = 26
 t = 1.340891114
 p = 0.0958 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = No site soil mean is not statistically greater than background mean

ARSENIC - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Arsenic	2.522	1.164	18	3.438	1.792	10

Calculated Difference = 0.916
 Standard Error of the Difference = 0.633108336
 Degree of Freedom = 26
 t = 1.446829789
 p = 0.0799
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically less than background mean

BARIUM - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Barium	145.2	115.8	18	333.1	288.1	10

Calculated Difference = 187.9
 Standard Error of the Difference = 95.33605484
 Degree of Freedom = 26
 t = 1.970922756
 p = 0.0297 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site surface soil mean is statistically less than background mean

CADMIUM - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Cadmium	0.207	0.252	18	0.0311	0.0398	10

Calculated Difference = 0.1759
 Standard Error of the Difference = 0.06240139
 Degree of Freedom = 26
 t = 2.818847487
 p = 0.0045
 Data sets significantly different = Yes

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is statistically greater than background mean

CHROMIUM - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Chromium	20.26	27.58	18	15.2	3.02	10

Calculated Difference = 5.06
 Standard Error of the Difference = 6.7569619
 Degree of Freedom = 26
 t = 0.748857264
 p = 0.2303
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

COPPER - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Copper	24.13	44.66	18	12.12	3.955	10

Calculated Difference = 12.01
 Standard Error of the Difference = 10.90360718
 Degree of Freedom = 26
 t = 1.101470348
 p = 0.1405
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

LEAD - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Lead	57.7	111.1	18	13.43	1.547	10

Calculated Difference = 44.27
 Standard Error of the Difference = 26.95014837
 Degree of Freedom = 26
 t = 1.64266257
 p = 0.0562 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = No site surface soil mean is not statistically greater than background mean

LITHIUM - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Lithium	16.57	5.136	18	21.14	5.166	10

Calculated Difference = 4.57
 Standard Error of the Difference = 2.054368963
 Degree of Freedom = 26
 t = 2.224527377
 p = 0.0175 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site surface soil mean is statistically less than background mean

MANGANESE - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Manganese	369.5	247.7	18	377.4	93.75	10

Calculated Difference = 7.9
 Standard Error of the Difference = 66.99284257
 Degree of Freedom = 26
 t = 0.117923045
 p = 0.4535 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = No site surface soil mean is not statistically less than background mean

MERCURY - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Mercury	0.0126	0.0163	18	0.0213	0.00479	10

Calculated Difference = 0.0087
 Standard Error of the Difference = 0.004233584
 Degree of Freedom = 26
 t = 2.054996426
 p = 0.0250 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site soil mean is statistically less than background mean

MOLYBDENUM - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Molybdenum	0.949	2.5	18	0.522	0.0739	10

Calculated Difference = 0.427
 Standard Error of the Difference = 0.606789238
 Degree of Freedom = 26
 t = 0.703703977
 p = 0.2439
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

ZINC - NORTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Zinc	418.4	1308	18	247	364.6	10

Calculated Difference = 171.4
 Standard Error of the Difference = 337.5387012
 Degree of Freedom = 26
 t = 0.507793623
 p = 0.3080
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean